PATENT COOPERATION TREATY



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416							
INT03149N								
International application No.	International filing date (day/month/y	pear) Priority date (day/month/year)						
PCT/NO 2003/000288	21.08.2003	24.09.2002						
International Patent Classification (IPC) or national classification and IPC								
B63B 27/34, E21B 17/01								
Applicant								
STATOIL ASA et al								
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
3. This report is also accompanied by ANNEXES, comprising:								
J. Amb toport to the topological of the treatment of the								
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:								
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the								
Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes								
		n as filed, as indicated in item 4 of Box No. I and the						
Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
, containing a sequence listing and/or tables related thereto, in computer								
		elating to Sequence Listing (see Section 802 of the						
Administrative Instru	ctions).							
4. This report contains indications re	-							
Box No. I Basis of	f the report							
Box No. II Priority		·						
Box No. III Non-est	ablishment of opinion with regard to n	ovelty, inventive step and industrial applicability						
Box No. IV Lack of	Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	documents cited	and						
Box No. VII Certain								
L	observations on the international appli							
DOX NO. VIII COMMI	observations on the international appro-							
Date of submission of the demand	Date of com	Date of completion of this report						
		·						
01.04.2004	28.12.	28.12.2004						
Name and mailing address of the IPEA/SE		Authorized officer						
Patent- och registreringsverket								
Box 5055 S-102 42 STOCKHOLM	Carl	Carl Fröderberg/EK						
Enginila No. ±46 9 667 72 99		Telephone No. ±46 8 782 25 00						

Form PCT/IPEA/409 (cover sheet) (January 2004)

Вол	No. I	Basis of the report				
1.	. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.					
		This report is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:				
		international search (under Rules 12.3 and 23.1(b))				
		publication of the international application (under Rule 12.4)				
		international preliminary examination (under Rules 55.2 and/or 55.3)				
2.	furnish	th regard to the elements of the international application, this report is based on (replacement sheets which have been nished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" are not annexed to this report): the international application as originally filed/furnished				
<u> </u>						
	LJ	the description: as originally filed/furnished				
		pages as originarly incurrent sheet pages* received by this Authority on				
		pages* received by this Authority on				
1		the claims:				
	<u></u>	pages as originally filed/furnished				
		pages* as amended (together with any statement) under Article 19				
		pages* received by this Authority on				
		pages* received by this Authority on				
		the drawings:				
		pages as originally filed/furnished				
•		pages* received by this Authority on				
		pages* received by this Authority on				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
	•	the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.	This report has been established as if (some of) the amendments annexed to this report and listed belo made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplem 70.2(c)).					
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
*	* If item 4 applies, some or all of those sheets may be marked "superseded."					

Box No. V	Reasoned statement u	nder Article : tions supporti	35(2) with regard to novelty, inventive sing such statement	step or industrial applicability;
1. Statement				
Nove	lty (N)	Claims Claims	1-17	YES NO
Inven	tive step (IS)	Claims Claims	1-17	YES NO
Indus	trial applicability (IA)	Claims Claims	1-17	YES NO
				is a

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 4505618 A D2: GB 2066758 A D3: GB 2320268 A D4: US 3612176 A

The cited documents represent the general state of the art. The invention defined in claims 1- 17 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed flexible risers for transfer of hydrocarbons between a sea bed installation and a vessel where the riser is provided with means for protecting the riser from impacts. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1- 17 is novel and is considered to involve an inventive step. The invention is industrially applicable.